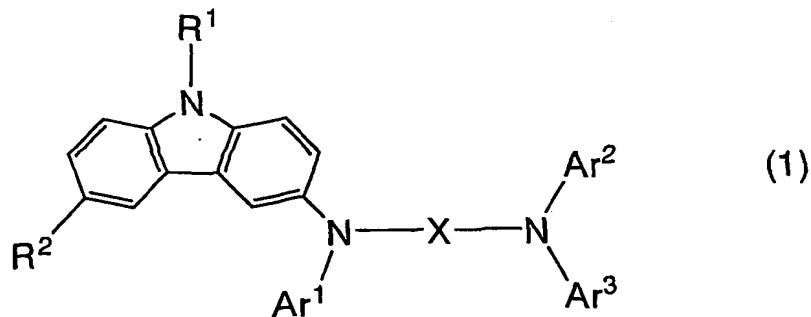


CLAIMS

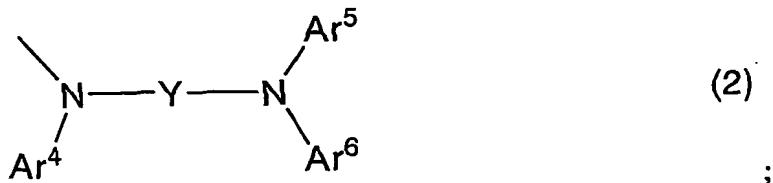
1. A carbazole derivative represented by a general formula (1),



5

wherein R¹ is one selected from the group consisting of hydrogen, an alkyl group having 1 to 6 carbon atoms, an aryl group having 6 to 25 carbon atoms, a heteroaryl group having 5 to 9, an arylalkyl group, and an acyl group having 1 to 7 carbon atoms;

10 wherein R² is one selected from the group consisting of hydrogen, an alkyl group having 1 to 6 carbon atoms, and a substituent represented by a general formula (2),



15

wherein each of Ar¹ to Ar⁶ is one selected from the group consisting of an aryl group having 6 to 25 carbon atoms and a heteroaryl group having 5 to 9 carbon atoms; and

20 wherein each of X and Y is one selected from the group consisting of a bivalent aromatic hydrocarbon group having 6 to 25 carbon atoms and a bivalent heterocyclic group having 5 to 10 carbon atoms.

2. The carbazole derivative according to claim 1,

wherein R¹ is one selected from the group consisting of a methyl group, an ethyl group, a tert-butyl group, and a phenyl group.

5 3. The carbazole derivative according to claim 1,

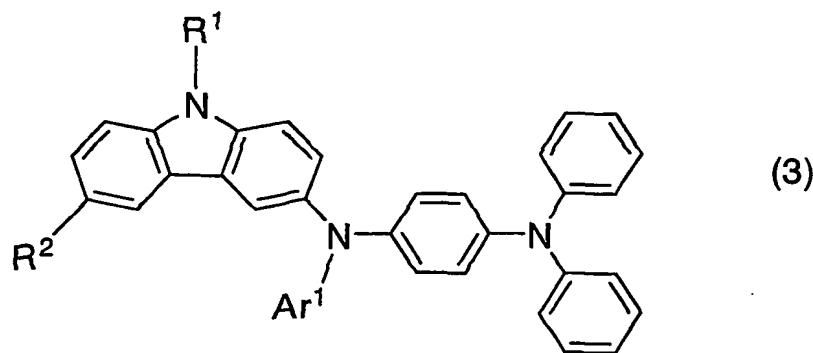
wherein R² is hydrogen or a tert-butyl group.

4. The carbazole derivative according to claim 1,

wherein R² has a structure of the general formula (2); and

10 wherein Ar¹ and Ar⁴, Ar² and Ar⁵, Ar³ and Ar⁶, and X and Y have identical structures, respectively.

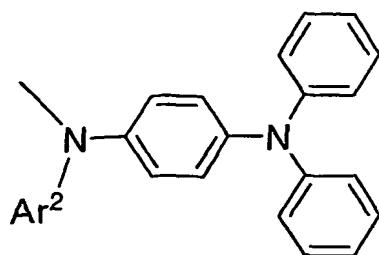
5. A carbazole derivative represented by a general formula (3),



15

wherein R¹ is one selected from the group consisting of hydrogen, an alkyl group having 1 to 6 carbon atoms, an aryl group having 6 to 25 carbon atoms, a heteroaryl group having 5 to 9 carbon atoms, an arylalkyl group, and an acyl group having 1 to 7 carbon atoms;

wherein R² is one selected from the group consisting of hydrogen, an alkyl group having 1 to 6 carbon atoms, and a substituent represented by a general formula (4),



(4)

; and

wherein each of Ar¹ and Ar² is one selected from the group consisting of an aryl group having 6 to 25 carbon atoms and a heteroaryl group having 5 to 9 carbon atoms.

5

6. The carbazole derivative according to claim 5,

wherein R¹ is one selected from the group consisting of a methyl group, an ethyl group, a tert-butyl group, and a phenyl group.

10

7. The carbazole derivative according to claim 5,

wherein R² is hydrogen or a tert-butyl group.

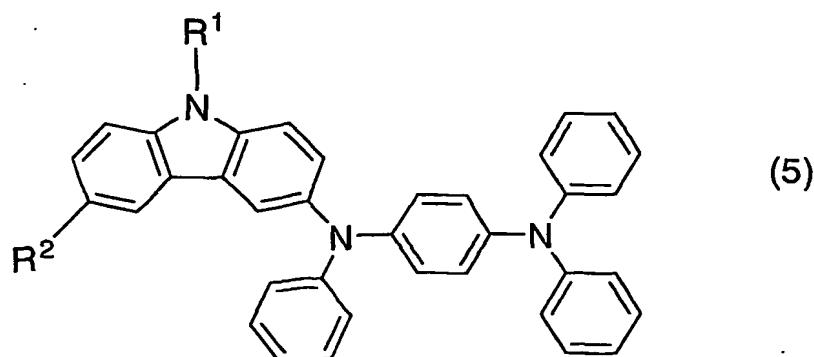
15

8. The carbazole derivative according to claim 5,

wherein R² has a structure of the general formula (4); and

wherein Ar¹ and Ar² have an identical structure.

9. A carbazole derivative represented by a general formula (5),

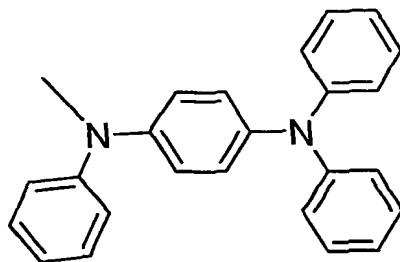


20

(5)

wherein R¹ is one selected from the group consisting of hydrogen, an alkyl group having 1 to 6 carbon atoms, an aryl group having 6 to 25 carbon atoms, a heteroaryl group having 5 to 9 carbon atoms, an arylalkyl group, and an acyl group having 1 to 7 carbon atoms; and

wherein R² is one selected from the group consisting of hydrogen, an alkyl group having 1 to 6 carbon atoms, and a substituent represented by a general formula (6),



(6)

10

10. The carbazole derivative according to claim 9,

wherein R¹ is one selected from the group consisting of a methyl group, an ethyl group, a tert-butyl group, and a phenyl group.

15

11. The carbazole derivative according to claim 9,

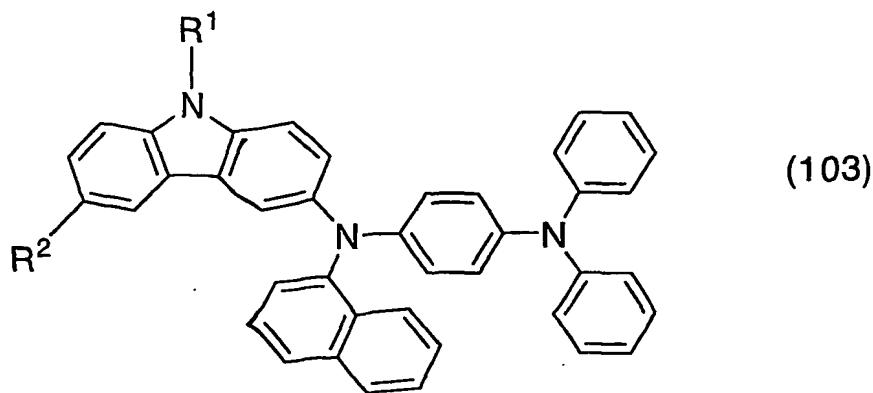
wherein R² is hydrogen or a tert-butyl group.

20

12. The carbazole derivative according to claim 9,

wherein R² has a structure of the general formula (6).

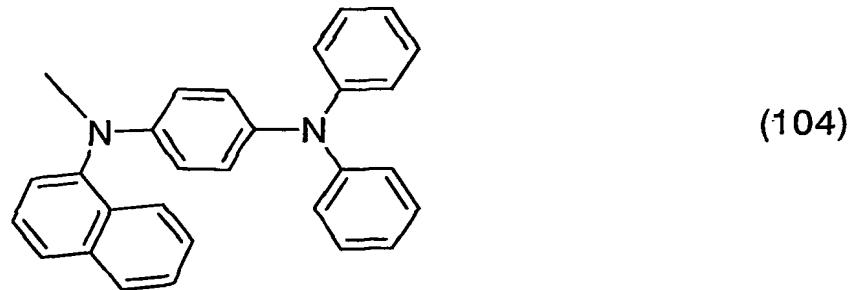
13. A carbazole derivative represented by a general formula (103),



wherein \mathbf{R}^1 is one selected from the group consisting of hydrogen, an alkyl group having 1 to 6 carbon atoms, an aryl group having 6 to 25 carbon atoms, a heteroaryl group having 5 to 9 carbon atoms, an arylalkyl group, and an acyl group having 1 to 7 carbon atoms; and

5 wherein \mathbf{R}^2 is one selected from the group consisting of hydrogen, an alkyl group having 1 to 6 carbon atoms, and a substituent represented by a general formula (104),

10

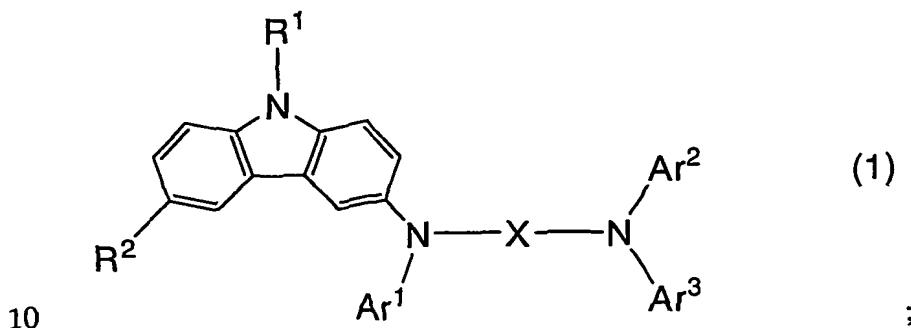


14. The carbazole derivative according to claim 13,
 wherein \mathbf{R}^1 is one selected from the group consisting of a methyl group, an
 15 ethyl group, a tert-butyl group, and a phenyl group.

15. The carbazole derivative according to claim 13,
 wherein \mathbf{R}^2 is hydrogen or a tert-butyl group.

16. The carbazole derivative according to claim 13,
wherein R² has a structure of the general formula (104).

5 17. A light emitting element comprising a layer containing a light emitting material interposed between a pair of electrodes,
wherein the layer containing the light emitting material comprises a carbazole derivative represented by a general formula (1),

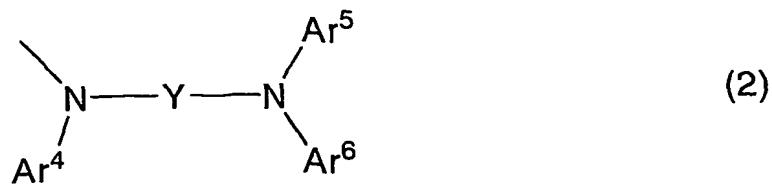


10 wherein R¹ is one selected from the group consisting of hydrogen, an alkyl group having 1 to 6 carbon atoms, an aryl group having 6 to 25 carbon atoms, a heteroaryl group having 5 to 9 carbon atoms, an arylalkyl group, and an acyl group having 1 to 7 carbon atoms;

15 wherein R² is one selected from the group consisting of hydrogen, an alkyl group having 1 to 6 carbon atoms and a substituent represented by a general formula (2);

20 wherein each of Ar¹ to Ar⁶ are one selected from the group consisting of an aryl group having 6 to 25 carbon atoms and a heteroaryl group having 5 to 9 carbon atoms; and

25 wherein each of X and Y are one selected from the group consisting of a bivalent aromatic hydrocarbon group having 6 to 25 and a bivalent heterocyclic group having 5 to 10 carbon atoms,

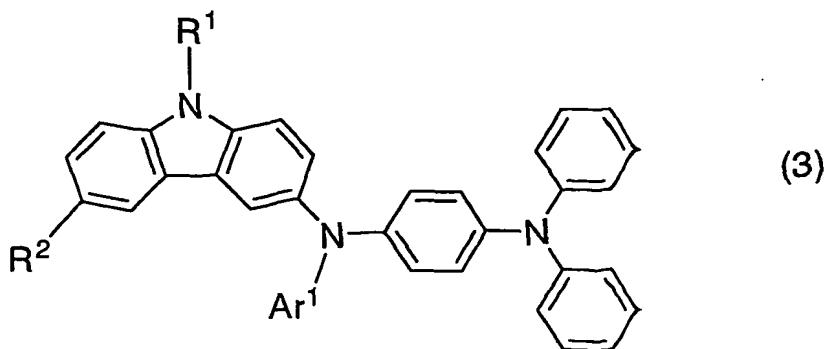


18. The light emitting element according to claim 17,
wherein R¹ is one selected from the group consisting of a methyl group, an
5 ethyl group, a tert-butyl group, and a phenyl group.

19. The light emitting element according to claim 17,
wherein R² is hydrogen or a tert-butyl group.

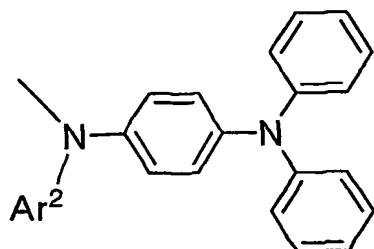
10 20. The light emitting element according to claim 17,
wherein R² has an identical structure of the general formula (2); and
wherein Ar¹ and Ar⁴, Ar² and Ar⁵, Ar³ and Ar⁶, and X and Y have identical
structures, respectively.

15 21. A light emitting element comprising a layer containing a light emitting
material interposed between a pair of electrodes,
wherein the layer containing the light emitting material comprises a carbazole
derivative represented by a general formula (3),



wherein R¹ is one selected from the group consisting of hydrogen, an 'alkyl group having 1 to 6 carbon atoms, an aryl group having 6 to 25 carbon atoms, a heteroaryl group having 5 to 9 carbon atoms, an arylalkyl group, and an acyl group having 1 to 7 carbon atoms;

5 wherein R² is one selected from the group consisting of hydrogen, an alkyl group having 1 to 6 carbon atoms, and a substituent represented by a general formula (4),



(4)

; and

10

wherein each of Ar¹ and Ar² is one selected from the group consisting of an aryl group having 6 to 25 carbon atoms and a heteroaryl group having 5 to 9 carbon atoms.

15

22. The light emitting element according to claim 21,

wherein R¹ is one selected from the group consisting of a methyl group, an ethyl group, a tert-butyl group, and a phenyl group.

20

23. The light emitting element according to claim 21,

wherein R² is hydrogen or a tert-butyl group.

24. The light emitting element according to 21,

wherein R² has a structure of the general formula (4); and

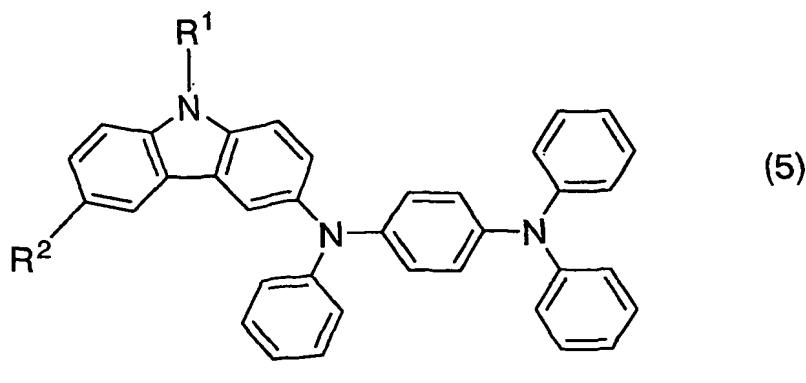
wherein Ar¹ and Ar² have an identical structure.

25

25. A light emitting element comprising a layer containing a light emitting

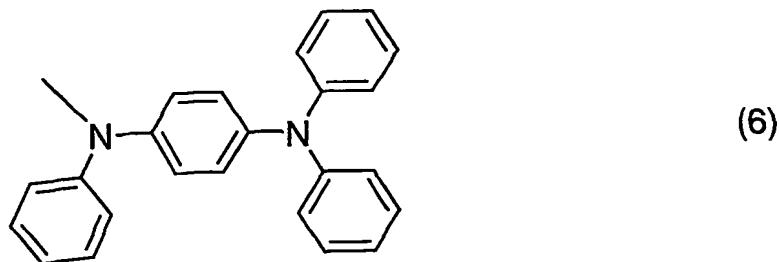
material interposed between a pair of electrodes,

wherein the layer containing the light emitting material comprises a carbazole derivative represented by a general formula (5),



5 wherein R¹ is one selected from the group consisting of hydrogen, an alkyl group having 1 to 6 carbon atoms, an aryl group having 6 to 25 carbon atoms, a heteroaryl group having 5 to 9 carbon atoms, an arylalkyl group, and an acyl group having 1 to 6 carbon atoms; and

10 wherein R² is one selected from the group consisting of hydrogen, an alkyl group having 1 to 6 carbon atoms, and a substituent represented by a general formula (6),



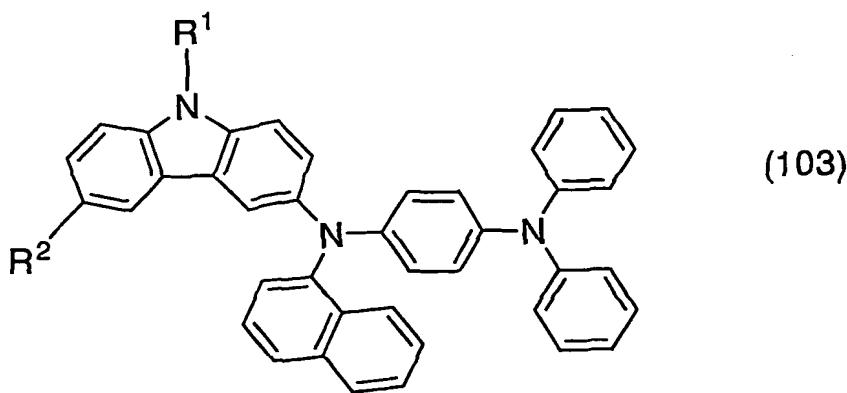
15 26. The light emitting element according to claim 25,

wherein R¹ is one selected from the group of consisting a methyl group, an ethyl group, a tert-butyl group, and a phenyl group.

27. The light emitting element according to claim 25,
wherein R² is hydrogen or a tert-butyl group.

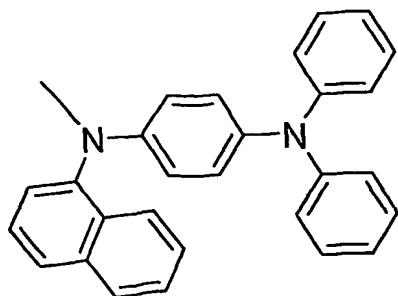
5 28. The light emitting element according to claim 25,
 wherein R² has a structure of a general formula (6).

10 29. A light emitting element comprising a layer containing a light emitting
 material interposed between a pair of electrodes,
 wherein the layer containing the light emitting material comprises a carbazole
 derivative represented by a general formula (103),



15 wherein R¹ is one selected from the group containing of hydrogen, an alkyl
 group having 1 to 6 carbon atoms, an aryl group having 6 to 25 carbon atoms, a
 heteroaryl group having 5 to 9 carbon atoms, an arylalkyl group, and an acyl group
 having 1 to 7 carbon atoms; and

20 wherein R² is one selected from the group containing of hydrogen, an alkyl
 group having 1 to 6 carbon atoms, and a substituent represented by a structural formula
 (104),



(104)

30. The light emitting material according to claim 29,

wherein R¹ is one selected from the group consisting of a methyl group, an

5 ethyl group, a tert-buthyl group, and a phenyl group.

31. The light emitting element according to claim 29,

wherein R² is hydrogen or a tert-buthyl group.

10 32. The light emitting element according to claim 29,

wherein R² has a structure of the structural formula (104).

33. The light emitting element according to claim 17,

wherein the layer containing a light emitting material comprises a layer

15 containing the carbazole derivative;

wherein one of the pair of electrodes is an anode; and

wherein the anode is in contact with the layer containing the carbazole derivative.

20 34. A light emitting device comprising the light emitting element according to

claim 17.

35. The light emitting element according to claim 21,

wherein the layer containing a light emitting material comprises a layer

25 containing the carbazole derivative;

wherein one of the pair of electrodes is an anode; and
wherein the anode is in contact with the layer containing the carbazole derivative.

5 36. A light emitting device comprising the light emitting element according to claim 21.

37. The light emitting element according to claim 25,
wherein the layer containing a light emitting material comprises a layer
10 containing the carbazole derivative;
wherein one of the pair of electrodes is an anode; and
wherein the anode is in contact with the layer containing the carbazole derivative.

15 38. A light emitting device comprising the light emitting element according to claim 25.

39. The light emitting element according to claim 29,
wherein the layer containing a light emitting material comprises a layer
20 containing the carbazole derivative;
wherein one of the pair of electrodes is an anode; and
wherein the anode is in contact with the layer containing the carbazole derivative.

25 40. A light emitting device comprising the light emitting element according to claim 29.

41. A electronic apparatus including the light emitting element according to claim 17,
30 wherein the electronic apparatus is one selected from the group consisting of a

camera, a goggle type display, a navigation system, a sound reproduction device, a personal computer, a game machine, a portable information terminal, and an image reproduction device equipped with a recording medium.

5 42. A electronic apparatus including the light emitting element according to
claim 21,

wherein the electronic apparatus is one selected from the group consisting of a camera, a goggle type display, a navigation system, a sound reproduction device, a personal computer, a game machine, a portable information terminal, and an image
10 reproduction device equipped with a recording medium.

43. A electronic apparatus including the light emitting element according to
claim 25,

wherein the electronic apparatus is one selected from the group consisting of a camera, a goggle type display, a navigation system, a sound reproduction device, a personal computer, a game machine, a portable information terminal, and an image
15 reproduction device equipped with a recording medium.

44. A electronic apparatus including the light emitting element according to
20 claim 29,

wherein the electronic apparatus is one selected from the group consisting of a camera, a goggle type display, a navigation system, a sound reproduction device, a personal computer, a game machine, a portable information terminal, and an image
reproduction device equipped with a recording medium.